

TENNESSEE STATE BOARD OF EDUCATION	
APPROVED HIGH SCHOOL COURSES	3.205

The following courses may be offered for credit in grades 9-12.

**Academic Program**

1. **Automobile Driver Education**
  
2. **Computer Technology**
  - 2.1. Computer Literacy
  - 2.2. BASIC
  - 2.3. Pascal
  - 2.4. FORTRAN
  - 2.5. C
  - 2.6. C++
  - 2.7. JAVA
  - 2.8. Advanced Placement Computer Science
  - 2.9. Computer Applications
  - 2.10. Interactive Multimedia Design
  - 2.11. Adventures in Computing
  
3. **Visual and Performing Arts**
  - 3.1. General Music
  - 3.2. Instrumental Music I, II, III, IV
  - 3.3. Vocal/Choral Music I, II, III, IV
  - 3.4. Class Piano I, II, III, IV
  - 3.5. Music History
  - 3.6. Music Theory
  - 3.7. Visual Art I, II, III, IV
  - 3.8. Visual Art History
  - 3.9. Dance I, II, III, IV
  - 3.10. Theater I, II, III, IV
  - 3.11. Advanced Placement Music Theory
  - 3.12. Advanced Placement Art History
  - 3.13. Advanced Placement Studio Art
  
4. **General Education Exploratory**
  - 4.1. General Agriculture
  - 4.2. General Home Economics
  
5. **Health, Physical Education, and Wellness**
  - 5.1. Physical Education
  - 5.2. Health Education
  - 5.3. Wellness
  
6. **Language Arts**
  - 6.1. English Language Arts I, II, III, IV
  - 6.2. Advanced Placement English\*
  - 6.3. Speech
  - 6.4. Journalism

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- 6.5. Competency English
- 6.6. Creative Writing
- 6.7. Latin I, II, III, IV
- 6.8. French I, II, III, IV
- 6.9. German I, II, III, IV
- 6.10. Spanish I, II, III, IV
- 6.11. Russian I, II, III, IV
- 6.12. Japanese I, II, III, IV
- 6.13. Chinese I, II, III, IV
- 6.14. Other Languages I, II, III, IV
- 6.15. Advanced Placement Spanish
- 6.16. Advanced Placement French
- 6.17. Advanced Placement German
- 6.18. Advanced Placement Latin
- 6.19. English as a Second Language\*\*

\* Advanced Placement English programs of the College Board may substitute for English III or English IV.

\*\* Course work in English as a Second Language may be used to satisfy the English language requirement for graduation, not to exceed two units. Additional English as a Second Language course work may be awarded elective credits.

## 7. Mathematics

### 7.1. Mathematics Course Sequence \*

- 7.1.1. Foundations I, II, Algebra IA\*\*
- 7.1.2. Algebra I\*\*\*
- 7.1.3. Geometry\*\*\*
- 7.1.4. Algebra II\*\*\*
- 7.1.5. Advanced Algebra and Trigonometry
- 7.1.6. Statistics
- 7.1.7. Discrete Mathematics with Statistics & Probability
- 7.1.8. PreCalculus
- 7.1.9. Calculus
- 7.1.10 Advanced Placement Statistics
- 7.1.11 Advanced Placement Calculus AB/BC
- 7.1.12 Bridge Math Course\*\*\*\*
- 7.1.13 Senior Finite Math\*\*\*\*

\* All students who enter high school beginning in 2009-10 must earn four credits in high school mathematics including Algebra I, Geometry, and Algebra II or the equivalent, and another mathematics course beyond Algebra I. Students must be enrolled in a mathematics course each school year.

For those students who have met the ACT and/or SAT college readiness benchmarks in mathematics, the following courses may satisfy the requirement for being enrolled in a mathematics course for a fourth (or more) credit option: Physics, Advanced Placement Physics B, C, or Advanced Placement Computer Science.

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Students enrolled in high school prior to 2009-10 must earn at least three credits in high school mathematics which must include a course equivalent to Algebra I. Students who entered high school in 2005-06 will also be required to complete one of the following: Geometry, Technical Geometry, Algebra II, or Integrated Mathematics II as part of the three required units.

\*\* Foundations I & II courses are elective credit only for students who enter high school beginning in 2009-10. Students who entered high school prior to 2009-10 may receive a maximum of one mathematics credit for a course in Foundations I, Foundations II, Technical Math (formerly known as Mathematics for Technology I) or Algebra IA. Students who enter high school prior to 2005-06 may receive a maximum of two credits for these courses. Note: Technical Math will no longer be offered effective 2009-10.

\*\*\*Algebra I, Geometry, and Algebra II may be substituted (if available) with an equivalent course (same content standards) with different instructional methodology such as honors, CTE, or extended time (A/B courses). A courses are elective credit only. Math content credit is awarded upon completion of the B courses. Note: Integrated Math I, II, & III courses may substitute for Algebra I, Geometry, & Algebra II in its entirety.

\*\*\*\*The Bridge Math course is designed for students who have not scored 19 or higher on the ACT by the beginning of the senior year. The Finite Senior Math course is designed for students who do not wish to take a more traditional STEM math course. These courses are currently under development with planned implementation to serve students graduating under the Ready Core requirements pending board approval.

### 8. JROTC Military Science\*

\* Two credits of JROTC may be substituted for one credit of wellness required for graduation, provided that the local board of education has complied with the requirements of the State Board of Education.

\* Three credits of JROTC may be substituted for one-half unit of United States Government required for graduation.

\* Four credits of JROTC may be substituted for one-half unit of Personal Finance.

### 9. Science

- 9.1. Physical Science
- 9.2. Biology I, II
- 9.3. Biology I A, B
- 9.4. Human Anatomy and Physiology
- 9.5. Chemistry I, II
- 9.6. Chemistry I A, B
- 9.7. Earth Science
- 9.8. Geology
- 9.9. Environmental Science
- 9.10. Ecology
- 9.11. Physics

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- 9.12. Physics I A, B
- 9.13. Physical World Concepts
- 9.14. Scientific Research
- 9.15. Advanced Placement Biology
- 9.16. Advanced Placement Chemistry
- 9.17. Advanced Placement Physics B, C
- 9.18. Advanced Placement Environmental Science

### 10. Social Studies

- 10.1. United States History
- 10.2. Economics\*
- 10.3. United States Government\*\*
- 10.4. Psychology
- 10.5. World Geography
- 10.6. World History
- 10.7. Contemporary Issues
- 10.8. Modern History
- 10.9. Ancient History
- 10.10. African-American History
- 10.11. Advanced Placement United States History
- 10.12. Advanced Placement European History
- 10.13. Advanced Placement World History
- 10.14. Advanced Placement Economics
- 10.15. Advanced Placement Government and Politics
- 10.16. Advanced Placement Human Geography
- 10.17. International Baccalaureate, History of the Americas HL\*\*\*
- 10.18. Personal Finance\*\*\*\*

\* The economics requirement for graduation may be satisfied by business economics, international business/marketing, one credit in a core marketing education course if the teacher is highly qualified to teach economics, or out-of-school experiences through Junior Achievement.

\*\* The United States government requirement for graduation may be satisfied by one semester of American business/legal systems or by three years of JROTC.

\*\*\* The United States history and United States government requirements may be satisfied by completion of the two-year sequence International Baccalaureate, History of the Americas HL.

\*\*\*\*The graduation requirement for Personal Finance may be satisfied by four years of JROTC.

### 11. Service Learning

- 11.1. Success Skills for Service Learning

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### Career and Technical Education.

#### **12. Agricultural Education\***

- 12.1. Exploring Agricultural Sciences\*\*
- 12.2. Agriscience(HQ)\*\*\*
- 12.3. Principles of Agricultural Sciences
- 12.4. Advanced Principles of Agriculture
- 12.5. Principles of Horticultural Sciences
- 12.6. Animal Systems
- 12.7. Small Animal Care
- 12.8. Horse Science
- 12.9. Livestock Management
- 12.10. Veterinary Science
- 12.11. Animal Biotechnology
- 12.12. Power, Structures and Technical Systems
- 12.13. Agricultural Mechanics and Maintenance
- 12.14. Agricultural Power and Equipment
- 12.15. Agricultural Engineering
- 12.16. Agribusiness, Food Products and Process Systems
- 12.17. Leadership and Communications
- 12.18. Agricultural Marketing and Sales
- 12.19. Agricultural Business/Finance
- 12.20. Agricultural Economics
- 12.21. Environmental and Natural Resources Systems
- 12.22. Forestry Management
- 12.23. Wildlife Management and Recreation
- 12.24. Plant and Soil Science
- 12.25. Plant Systems
- 12.26. Greenhouse Management
- 12.27. Floral Design
- 12.28. Landscaping and Turf Management
- 12.29. Aquaculture/Hydroponics
- 12.30. Plant Biotechnology

\* A student who completes an approved supervised occupational education program consisting of at least 180 hours will be given one-half credit as an out-of-school experience.

\*\* Exploring Agricultural Sciences is an eighth grade course.

\*\*\* Agriscience satisfies one laboratory credit in the area of life sciences required for graduation.

#### **13. Health Science Education**

- 13.1. Anatomy and Physiology\*
- 13.2. Biomedical Applications
- 13.3. Clinical Internship
- 13.4. Diagnostic Medicine

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- 13.5. Emergency Medical Services
- 13.6. Forensic Science
- 13.7. Health Information Technology
- 13.8. Health Science Education
- 13.9. Medical Terminology
- 13.10. Medical Therapeutics
- 13.11. Nursing Education
- 13.12. Rehabilitative Careers

\* Health Science Anatomy & Physiology may be offered for one unit of science credit if the teacher is considered highly qualified in Life Science or endorsed in science or it may be offered for one unit of career and technical education credit. This course may also be offered as a dual enrollment/dual credit course.

### 14. Family and Consumer Sciences Education

- 14.1. Teen Living\*
- 14.2. PACE—Personal, Academic and Career Excellence
- 14.3. Family and Consumer Sciences
- 14.4. Consumer Economics\*\*
- 14.5. Personal Finance
- 14.6. Child and Lifespan Development
- 14.7. Family and Parenting
- 14.8. Life Connections
- 14.9. Teaching as a Profession
- 14.10. Early Childhood Education Careers I
- 14.11. Early Childhood Education Careers II
- 14.12. Early Childhood Education Careers III
- 14.13. Nutrition and Foods
- 14.14. Nutrition Science\*\*\*
- 14.15. Housing
- 14.16. Interior Design
- 14.17. Textiles and Apparel
- 14.18. Fashion Design and Merchandising
- 14.19. Culinary Arts I
- 14.20. Culinary Arts II
- 14.21. Culinary Arts III

\* Teen Living standards are applicable to grades 5 through 8

\*\* Consumer Economics satisfies one-half credit in economics required for graduation.

\*\*\* Nutrition Science satisfies either one laboratory science credit in the area of life sciences (**if team taught** with a biology teacher) or one credit of physical science (**if team taught** with a chemistry teacher) required for graduation.

### 15. Marketing Education

- 15.1. Marketing & Management I—Principles \*
- 15.2. Marketing & Management II—Advanced Strategies

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- 15.3. Entrepreneurship\*
- 15.4. Market Research and Analysis
- 15.5. Retail Operations\*
- 15.6. Advertising and Public Relations
- 15.7. Sports and Entertainment Marketing
- 15.8. International Business and Marketing\*
- 15.9. Exploration of Organizational Leadership and Marketing
- 15.10. Travel and Tourism
- 15.11. Hospitality Management
- 15.12. Virtual Enterprise International\*\*
- 15.13. Personal Finance
- 15.14. Personal Finance and Building Wealth\*\*

\* Completion of one credit of a core marketing education course as signified by \* satisfies the economics requirement for graduation if the teacher is Highly Qualified to teach Economics.

\*\*Completion of one credit in Personal Finance and Building Wealth satisfies the graduation requirement for Personal Finance.

### 16. Business Technology

- 16.1. Computer Applications
- 16.2. Accounting I
- 16.3. Accounting II
- 16.4. American Business Legal Systems\*
- 16.5. Business Principles
- 16.6. Financial Planning
- 16.7. Business Economics\*\*
- 16.8. Computer Programming I
- 16.9. Computer Programming II
- 16.10. Game Programming
- 16.11. Document Formatting
- 16.12. Word Processing
- 16.13. Spreadsheet Applications
- 16.14. Advanced Computer Applications
- 16.15. Database Design/Management
- 16.16. Administrative Management
- 16.17. Desktop Publishing
- 16.18. Business Management
- 16.19. Banking and Finance
- 16.20. eBusiness Communications
- 16.21. Interactive Multimedia Presentations
- 16.22. Virtual Enterprise International
- 16.23. Personal Finance
- 16.24. Web Design Essentials
- 16.25. Web Design Applications

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\* American Business Legal Systems satisfies one-half credit in U.S. Government if the teacher is Highly Qualified to teach U.S. Government.

\*\* Business Economics or Virtual Enterprise International satisfy one-half credit in economics if the teacher is Highly Qualified to teach Economics.

### 17. Technology Engineering Education

- 17.1. Exploring Technology\*
- 17.2. Inventions and Innovations\*\*
- 17.3. Technological Systems\*\*\*
- 17.4. Foundations of Technology
- 17.5. Technological Issues
- 17.6. Advanced Technological Applications
- 17.7. Advanced Design Applications
- 17.8. Problems and Solutions in Technology
- 17.9. Engineering Design
- 17.10. Technological Design

\* Exploring Technology is designed for grade 6.

\*\* Inventions and Innovations is designed for grade 7.

\*\*\* Technological Systems is designed for grade 8.

### 18. Contextual Academics

- 18.1. Principles of Technology I\*
- 18.2. Principles of Technology II\*\*
- 18.3. Biology I\*\*\*
- 18.4. Algebra I\*\*\*\*
- 18.5. Geometry\*\*\*\*\*
- 18.6. English IV\*\*\*\*\*

\* Principles of Technology I satisfies one of the physical science credits required for graduation or it may be offered for one vocational credit.

\*\* Principles of Technology II satisfies one science credit required for graduation. The completion of Principles of Technology I and II fulfills the requirement for a credit in Physics.

\*\*\* Instruction in this grade-level Biology I class incorporates workplace-related and authentic methodologies.

\*\*\*\* Instruction in this grade-level Algebra I class incorporates workplace-related and authentic methodologies.

\*\*\*\*\* Instruction in this grade-level Geometry class incorporates workplace-related and authentic methodologies.



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\*\*\*\*\* Instruction in this grade-level English IV class incorporates workplace-related and authentic methodologies.

### 19. Trade and Industrial Education\*

- 19.1. Law, Protective Services, and Corrections
  - 19.1.1 Criminal Justice I
  - 19.1.2 Criminal Justice II
  - 19.1.3 Criminal Justice III: Forensic Science Investigations Human Services
- 19.2. Human Services
  - 19.2.1 Principles of Cosmetology
  - 19.2.1 Design Principles of Cosmetology
  - 19.2.1 Chemistry of Cosmetology
  - 20.2.1 Barbering
- 19.3. Hospitality & Tourism
  - 19.3.1 Culinary Arts I
  - 19.3.2. Culinary Arts II
  - 19.3.3. Culinary Arts III
- 19.4. Transportation
  - 19.4.1 Transportation Core
  - 19.4.2 Aviation Maintenance I
  - 19.4.3 Aviation Maintenance II
  - 19.4.4 Introduction to Aerospace
  - 19.4.5 Theory of Flight
  - 19.4.6 Automotive: Brakes
  - 19.4.7 Automotive: Suspension and Steering
  - 19.4.8 Automotive: Electrical/Electronics
  - 19.4.9 Automotive: Engine Performance
  - 19.4.10 Automotive: Technology
  - 19.4.11 Collision Repair: Non-Structural
  - 19.4.12 Collision Repair: Structural
  - 19.4.13 Collision Repair: Painting and Refinishing
  - 19.4.14 Diesel: Electrical/Electronics
  - 19.4.15 Diesel: Preventive Maintenance
  - 19.4.16 Diesel: Engine
  - 19.4.17 Two-Four Cycle Engine I
  - 19.4.18 Two-Four Cycle Engine II
  - 19.4.19 Two-Four Cycle Engine III
  - 19.4.20 Principles of Transportation, Distribution, and Logistics
  - 19.4.21 Warehouse and Distribution I
  - 19.4.22 Warehouse and Distribution II
- 19.5. Construction
  - 19.5.1 Construction Core
  - 19.5.2 Carpentry I
  - 19.5.3 Carpentry II
  - 19.5.4 Plumbing I
  - 19.5.5 Plumbing II
  - 19.5.6 Masonry I
  - 19.5.7 Masonry II

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- 19.5.8 Electrical I
- 19.5.9 Electrical II
- 19.5.10 Heating, Ventilation, Air Conditioning, and Refrigeration I
- 19.5.11 Heating, Ventilation, Air Conditioning, and Refrigeration II
- 19.5.12 Concrete I
- 19.5.13 Concrete II
- 19.5.14 Computer-Aided Drafting I\*\*\*
- 19.5.15 Computer-Aided Drafting II\*\*\*
- 19.5.16 Advanced Drafting and Design\*\*\*
- 19.5.17 Introduction to Welding\*\*\*
- 19.5.18 Basic Principles of Welding\*\*\*
- 19.5.19 Advanced Welding Applications\*\*\*
- 19.6. Arts and Communications
  - 19.6.1 Digital Arts & Design I
  - 19.6.2 Digital Arts & Design II
  - 19.6.3 Digital Arts & Design III
  - 19.6.4 Animation and Simulation
  - 19.6.5 Printing Graphics Technologies I
  - 19.6.6 Printing Graphics Technologies II
  - 19.6.7 Broadcasting I
  - 19.6.8 Broadcasting II
  - 19.6.9 Broadcasting III
  - 19.6.10 Audio Production I
  - 19.6.11 Audio Production II
  - 19.6.12 Audio Production III
- 19.7. Information Technology
  - 19.7.1 Information Technology Foundations
  - 19.7.2 Programming and Logic I
  - 19.7.3 Programming and Logic II
  - 19.7.4 Computer Systems
  - 19.7.5 Networking
  - 19.7.6 Cabling and Internetworking
  - 19.7.7 Information Technology Clinical Internship
  - 19.7.8 Web Site I—Foundations
  - 19.7.9 Web Page Design II—Site Designer
  - 19.7.10 Web Page Design III—eCommerce
- 19.8. Manufacturing
  - 19.8.1 Principles of Manufacturing
  - 19.8.2 Principles of Machining
  - 19.8.3 Principles of Machining and Manufacturing
  - 19.8.4 Manufacturing Applications
  - 19.8.5 Digital Electronics
  - 19.8.6 Computer-Aided Drafting I\*\*\*
  - 19.8.7 Computer-Aided Drafting II\*\*\*
  - 19.8.8 Advanced Drafting and Design\*\*\*
  - 19.8.9 Principles of Engineering
  - 19.8.10 Introduction to Welding\*\*\*
  - 19.8.11 Basic Principles of Welding\*\*\*

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- 19.8.12     Advanced Welding Applications\*\*\*
- 19.8.13     Introduction to Electromechanical
- 19.8.14     Electromechanical I
- 19.8.15     Electromechanical II

19.9.    Career Management Success\*\*

- \*    The Trade and Industrial Education program area is divided into nine focus areas. Students may select courses from one of the nine focus areas to comply with the graduation focus requirement.
- \*\*   The course Career Management Success may be offered in more than one focus area.
- \*\*\* These courses are listed in more than one location in order to show places in which they may be a portion of a focus area for the graduation requirement.